

- Engineering Services Key Activities for the Month of November 2005

## Summary

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- Skinner Area Projects:
  - San Diego Pipeline No. 6 Program
  - Skinner Water Treatment Expansion No. 4
- Supply and Delivery Reliability
  - Mills Water Treatment Plant Capacity Upgrade
- Infrastructure Reliability:
  - Conveyance and Distribution System Rehabilitation Program
  - CRA Pumping Plant Reliability Program
  - Jensen Water Treatment Plant Improvements Program
- Water Quality:
  - Diemer Water Treatment Plant Construct Sedimentation Basins Spillway Oxidation Retrofit Program
- Regulatory:
  - Chlorine Containment and Handling Facilities
- Cost Efficiency:
  - OC-88 Pumping Plant Energy Modifications

## Attachments

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Monthly Progress Report of Construction and Procurement Contracts for October 2005.

## Detailed Report

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This report details key engineering activities for the month November 2005, with the exception of the Inland Feeder Program, which is reported separately.

Board Report (Engineering Key Activities Report for the month of November 2005)

**Skinner Area Projects:**

**San Diego Pipeline No. 6 North Reach:** Through the end of November, approximately four miles (20,000 linear feet) of the 10-foot diameter steel pipe has been installed in the alignment along Anza Rd. This progress is over half of the seven-mile North Reach. The crossing of Rancho California Road is currently being accomplished by tunneling to minimize disturbance of local traffic. Restoration of the Anza Road right of way from De Portola Rd. to just south of Rancho California Rd. is underway and on schedule.

The slab and walls of the large valve vault at the north end of the alignment are in place; the vault will be ready to accept the 144-inch butterfly valve when it is delivered in December. Construction of the Rancho California Water District service connection, the meter vault and turnout structure at the south end (Anza Road and DePortola Road) is on schedule and is ready for December delivery of the 42-inch butterfly valve.

The North Reach project is scheduled to be on-line in the summer of 2006 and is within budget.



Figure 1: Pipeline installation continues

**Skinner Area Projects (cont.):**

**Skinner Water Treatment Plant Expansion No. 4:** This program includes construction of a new 110-mgd water treatment module (Module No. 7) and supporting facilities. In order to expedite construction of the new expansion, the work is being completed under multiple construction contracts. Module No. 7 construction will be completed by March 2007, while the associated chemical feed systems will be completed by June 2007. Recent activities include the following:

- The Module No. 7 construction contract is 38 percent complete.
- The Washwater Reclamation Plant No. 3 contractor, Shimmick/Obayashi, (who is also building the Skinner ORP) continued excavation for the washwater reclamation plant (Figure 2), and completed the erection of the on-site concrete batch plant. Portions of this contract work will support Module No. 7. The construction contract is 5 percent complete.
- The Board awarded a contract for new consolidated chemical tank farms and feed systems for the existing water treatment facilities and Module No. 7 in November 2005 and Notice to Proceed has been issued.

The program is on schedule to be completed in fiscal year 2007/08 and is within budget.



Figure 2: Washwater Reclamation Plant No. 3 construction site excavation



**Supply and Delivery Reliability:**

**Mills Water Treatment Plant Capacity Upgrade:** This program will upgrade specific components of the Mills plant to match the plant’s filtration capacity of 326 mgd. The program consists of four projects. Recent activities include the following:

- Ozone Contactors Nos. 3 and 4 – Under the completed Mills ORP, two ozone contactors with a combined capacity of 160 mgd were installed. To increase the ozonation capacity to 326 mgd, two new ozone contactors are required. Final design is 30 percent complete and is scheduled to be completed by June 2006. The projected online date for the additional contactors is mid-2008.
- Modules Nos. 1 and 2 Rehabilitation – To fully upgrade the Mills plant to achieve a capacity of 326 mgd, Modules Nos. 1 and 2 will be rehabilitated and returned to service. In conjunction with the rehabilitation of these modules, the post-filter disinfection system will be upgraded. Preliminary design is 90 percent complete and is scheduled to be completed by January 2006. The projected online date for Modules Nos. 1 and 2 is late-2008.
- Solids Handling Upgrade – A study is underway to determine if operational changes, upgrades of the lagoons, or new facilities (mechanical dewatering equipment and storage) are required to reliably treat the plant’s full 326 mgd capacity. Figure 3 shows two of the existing lagoons. The study is 10 percent complete and is scheduled to be completed by mid-June 2006. The projected online date for the solids handling facilities is late-2009.
- Chemical System Upgrades – Portions of the existing chemical facilities will be upgraded to support the plant’s full 326 mgd capacity. Currently, preliminary design is 75 percent complete and is scheduled to be completed by January 2006. The projected online date for the upgraded chemical facilities is late-2008.

The program is on schedule to be completed in fiscal year 2008/09 and is within budget.



Figure 3: Solids Handling Lagoons

Board Report (Engineering Key Activities Report for the month of November 2005)

**Infrastructure Reliability:**

**Conveyance and Distribution System Rehabilitation Program:** This program was established to maintain reliable deliveries through specific repair and rehabilitation projects on Metropolitan’s pipelines, reservoirs, and control structures. Recent activities include the following:

- Sepulveda Feeder Carbon Fiber Repairs – Bids were opened in September 2005 for repair of three pre-stressed concrete cylinder pipe (PCCP) segments using carbon fiber lining. The Board awarded a construction contract in November 2005.
- Foothill Feeder Carbon Fiber Repairs – Bids were opened in November 2005 for repair of two PCCP segments using carbon fiber lining. A request for Board approval to award a construction contract is planned for December 2005.
- Foothill Feeder Pipe Replacement Project – Bids were opened in November 2005 for removal and replacement of one PCCP segment with welded steel pipe. A request for Board approval to award a construction contract is planned for December 2005.
- San Diego Pipeline No.5 Repair and Lake Skinner Outlet Conduit Repair – Bids were opened in October 2005 for repair of four PCCP segments using a combination of steel pipe replacement and carbon fiber lining. The Board awarded a construction contract in November 2005.
- West Valley Feeder No.1 Repair - Construction is proceeding for the relocation of 240 feet of the West Valley Feeder No.1. (Figure 4). The shutdown target for the tie-in is the end of November 2005. Construction is scheduled to be completed by December 2005.
- Middle Cross Feeder Cathodic Protection – A construction contract was awarded for installation of a cathodic protection system on the Middle Cross Feeder. Construction is scheduled to be completed by December 2005.

The program is on schedule to be completed in fiscal year 2008/09 and is within budget.



Figure 4: Excavation for relocated portion of the West Valley Feeder No. 1

Date of Report: December 6, 2005

**Infrastructure Reliability (cont.):**

**CRA Pumping Plant Reliability Program:** This program was established to maintain reliability of the Colorado River Aqueduct (CRA) pumping plants and support facilities. Recent activities include the following:

- Desert Water Tank Access and Safety Improvements – Preliminary design is underway with completion anticipated by February 2006.
- Intake Pumping Plant Automation Project – Design objectives include automating pump operation and the collection of water quality data, and integrating the operational/control data from the pumps into Metropolitan’s Supervisory Control and Data Acquisition System. Design of the Pump Unit No.1 automation work is scheduled to be completed in January 2006. Installation by Metropolitan forces is scheduled to begin in March 2006 with completion anticipated by April 2007.
- Circulating Water System Improvements – Staff has completed an assessment of aging equipment and identified the need to replace deteriorated strainers, by-pass valves and piping. Figure 5 shows the existing strainer to be replaced. Design of the new water strainers is complete, and installation by Metropolitan forces is scheduled to be completed by July 2006.

The program is on schedule to be completed in fiscal year 2007/08 and is within budget.

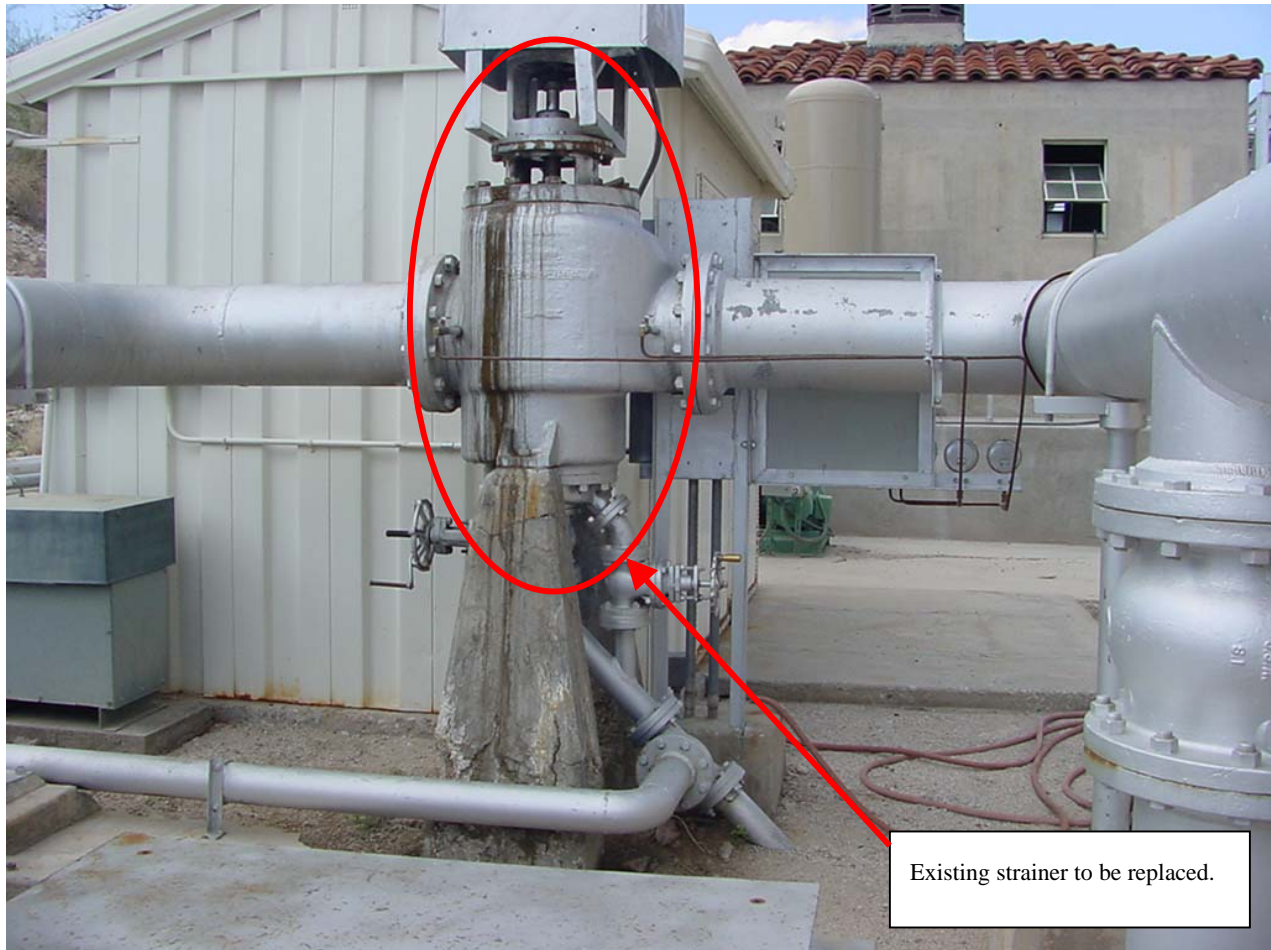


Figure 5: Existing strainer at Iron Mountain Pumping Plant to be replaced



Board Report (Engineering Key Activities Report for the month of November 2005)

**Infrastructure Reliability (cont.):**

**Jensen Water Treatment Plant Improvements Program:** This program was initiated to maintain reliability and to improve operating efficiency of the Jensen plant through specific improvement projects. The program currently contains fourteen projects. Recent activities include the following:

- Washwater Pump Modifications – Phases 1 and 2 – Final design is 50 percent complete and is planned to be completed by February 2006.
- Permanent Ferric Chloride Retrofit – Construction of the permanent ferric chloride facility is complete and the facility is operational.
- Reactivate Mixing and Settling Basins – Construction began in January 2005 and is 40 percent complete. The construction completion date has been extended due to rain delays and extra work associated with the removal and proper disposal of the old sealant material. Construction is scheduled to be completed in February 2006.
- Solids Handling Facility – Preliminary design is 90 percent complete and is expected to be completed by January 2006.
- Filter Media Replacement – Construction is currently 90 percent complete. The construction completion date has been extended due to rain delays and is scheduled to be completed in January 2006. Figure 6 shows the vacuum truck used to remove media from the filter beds
- Module No. 1 Filter Valve Refurbishment – The filter valves were inspected during the plant shutdown in February 2005. Staff is currently developing a long-term schedule for repair and replacement of the valves.

The program is on schedule to be completed in fiscal year 2006/07 and is within budget.



Figure 6: Filter media vacuum truck

**Water Quality:**

**Diemer Water Treatment Plant – Construct Sedimentation Basins Spillway:** This program was established to prevent unfiltered water from contaminating the finished water reservoir in case of an overflow condition. The west sedimentation basin rejection flow will be redirected to a new spillway conduit that discharges to Telegraph Creek in Chino Hills State Park. Construction has begun and is approximately 75 percent complete. Figure 7 shows the forming for the overflow structure.

The program is on schedule to be completed in fiscal year 2006/07 and is within budget.



Figure 7: Construction of the overflow structure in progress



Board Report (Engineering Key Activities Report for the month of November 2005)

**Water Quality (cont.):**

**Oxidation Retrofit Program:** This program was established to reduce the level of disinfection by-products in the finished water at all five treatment plants in order to meet state and federal drinking water regulations. Recent activities include the following:

- Mills Plant – The initial phase of construction was successfully completed in 2003. The initial phase included two ozone contactors within an ozonation capacity of 160 mgd. Planning is underway to add two additional contactors to upgrade ozonation capacity to match the full plant capacity of 326 mgd.
- Jensen Plant – This plant’s ozone system has been fully operational since July 1, 2005.
- Skinner Plant – The contractor has mobilized on-site and is preparing areas for storage and a concrete batch plant. Submittals review by staff continues. Figure 8 shows excavation for the coal removal structure.
- Weymouth Plant – Final design is underway with completion planned for 2006. A December Board action will be recommended for award of the Weymouth and Diemer ozone equipment procurement contract.
- Diemer Plant – The Board awarded a construction contract for the plant maintenance building in October 2005. Final design continues on the site preparation/south slope stabilization project with design completion planned for December 2005. A December Board action will be recommended for award of the Weymouth and Diemer ozone equipment procurement contract, along with the Diemer Chemical System Upgrades construction contract.



Figure 8: Coal removal structure excavation underway at the Skinner ORP

## Board Report (Engineering Key Activities Report for the month of November 2005)

### **Regulatory:**

**Chlorine Containment and Handling Facilities Program:** This program includes design and construction of facilities at all five water treatment plants and the Chemical Unloading Facility (CUF) to minimize the possibility of a chlorine leak. Recent activities include the following:

- Diemer and Weymouth Plants – The Diemer and Weymouth projects were completed in 2002 and 2005 respectively, and are operational.
- Jensen Plant – Final design is complete and a February 2006 Board action will be recommended for award of a construction contract.
- Mills Plant – Final design is complete and advertisement for bids is scheduled for November 2005. A February 2006 Board action will be recommended for award of a construction contract.
- Skinner Plant – In November 2005, the Board awarded a construction contract to complete these facilities in conjunction with the Skinner Expansion No. 4 chemicals contract.
- Chemical Unloading Facility – This project is planned to commence preliminary design in April 2006. Figure 9 shows two of the chlorine cargo trailers that will be housed in the new containment building at CUF.

The program is on schedule to be completed in fiscal year 2008/09 and is within budget.



Figure 9: Two of the chlorine cargo trailers at the Chlorine Unloading Facility

### **Cost Efficiency:**

**OC-88 Pumping Plant Energy Modification Project** – Construction of the energy-savings modification to the OC-88 Pumping Plant is complete and fully operational. The 14-day performance testing of the facility was successfully completed. The contractor is completing minor punch list items and demobilizing from the site.

Date of Report: December 6, 2005



**MONTHLY PROGRESS REPORT  
OF CONSTRUCTION AND PROCUREMENT CONTRACTS  
October 2005**  
(Progress Through October 25, 2005)

<b>Summary of Progress</b>		
	Construction	Related Procurement
Number of Contracts	23	4
Total Bid Amount of Contracts in Progress	\$ 668,384,127	\$ 36,388,545
Number of Contracts Awarded This Month	2	0
Total Bid Amount of Contracts Awarded This Month	\$ 8,574,000	\$ -
Contract Gross Earnings This Month*	\$ 19,850,460	\$ -
<p><i>*Note: Earnings reflected in this report represent the value of the work performed by the contractor through the 25th day of the month. Earnings include contract retention and other similar deductions from amounts earned by the contractor but otherwise required to be withheld by Metropolitan by law or by contract. Further, payments are made in the month following the performance of the work. For these reasons, contract payments reflected in Metropolitan's financial system will be less than the earnings shown in this report until the final payment has been made to the contractor.</i></p>		

**New Contracts Awarded This Month**

Contract No. 1613, Robert B. Diemer Water Treatment Plant, Washwater Tank Pumps Replacement, in the amount of \$355,000, was awarded to DenBoer Engineering & Construction, Inc. The work consists of the replacement of existing pumps, motors, check valves, pressure indicators, and reduced voltage motor starters.

Contract No. 1614, Robert B. Diemer Water Treatment Plant, Plant Maintenance Facilities, in the amount of \$8,219,000, was awarded to Brutoco Engineering & Construction, Inc. The work consists of the construction of a new maintenance building, installation of an electrical substation/transformer, and associated work.

**Contracts Completed This Month**

Contract No. 1602, Henry J. Mills Water Treatment Plant Administration Building HVAC Replacement, was completed on October 6, 2005, and the Notice of Completion was recorded on October 19, 2005.

**Summaries/Status of Contracts**

The summaries/status of current construction and construction-related procurement contracts are provided on the following pages.



**Summary of Construction Contracts**

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings To Date	Net Extra Work To Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
<b>Inland Feeder Contract</b>											
1542	1437	Arrowhead Tunnels Project	J. F. Shea / Kenny	\$ 242,250,000	\$ 3,790,619	\$ 142,855,241	\$ 20,427,456	8/2/02	6/13/07	12/08	54%
<b>Inland Feeder Totals</b>				<b>\$ 242,250,000</b>	<b>\$ 3,790,619</b>	<b>\$ 142,855,241</b>	<b>\$ 20,427,456</b>				
<b>Miscellaneous Contracts</b>											
1559	1473	Diamond Valley Recreation, East Marina Project, Phase 1	Riverside Construction Co., Inc.	\$ 4,646,000	\$ -	\$ 4,475,847	\$ -	4/7/03	9/2/03	2/06	96% <sup>1</sup>
1569	1466	OC-88 Energy Savings Modifications	Kiewit Pacific Co.	\$ 9,095,000	\$ 223,335	\$ 8,824,546	\$ 351,820	8/13/03	11/3/05	11/05	93%
1579	1457	Desert Fire Protection Upgrades at Whitsett Intake, Iron Mountain, Eagle Mountain, and Hinds Pumping Plant Facilities	Gantry Constructors, Inc.	\$ 3,695,000	\$ 216,014	\$ 3,477,817	\$ 66,894	5/7/04	9/19/05	1/06	92% <sup>2</sup>
1588	1468	Diemer Water Treatment Plant Settling Basin No. 8 Spillway Conduit	Kiewit Pacific Co.	\$ 3,726,000	\$ 221,123	\$ 2,913,600	\$ -	10/27/04	12/21/06	12/06	78%
1589	1492	Weymouth Water Treatment Plant Solids Handling Facilities	Brutoco Engineering & Construction, Inc.	\$ 14,090,000	\$ 2,118,455	\$ 11,572,649	\$ 33,345	10/20/04	2/1/06	2/06	82%
1590	1508	Jensen Water Treatment Plant Modules 1, 2, & 3 Filter Materials Replacement	Carbon Activated Corp.	\$ 2,717,518	\$ -	\$ 2,671,768	\$ -	11/23/04	8/5/05	11/05	98% <sup>2</sup>
1593	1489	Skinner Water Treatment Plant Expansion No. 4 Module No. 7	J. R. Filanc Construction Company, Inc.	\$ 76,383,645	\$ 5,124,123	\$ 25,802,193	\$ 18,393	1/5/05	3/6/07	3/07	34%
1594	1490	Diamond Valley Lake East Recreation Searl Parkway Improvements, Phase 1	PALP, Inc. dba Excel Paving Company	\$ 8,986,566	\$ 172,746	\$ 8,794,173	\$ 48,533	12/15/04	10/6/05	11/05	97% <sup>2</sup>
1597	1502	Jensen Water Treatment Plant Module 1 Settling Basin No. 3 Leak Repairs	Best Roofing & Waterproofing, Inc.	\$ 546,275	\$ -	\$ 250,350	\$ -	1/10/05	7/31/05	<sup>3</sup>	46%
1598	1479	San Diego Pipeline No. 6 North Reach	J. F. Shea Construction, Inc.	\$ 65,806,000	\$ 3,353,336	\$ 22,655,939	\$ 43,174	1/24/05	1/20/07	1/07	34%
1599	1496	Diemer Water Treatment Plant Yorba Linda Feeder Bypass	Mladen Buntich Construction Co.	\$ 5,915,000	\$ 1,233,500	\$ 2,113,215	\$ -	2/16/05	3/24/06	3/06	36%
1600	1521	West Valley Feeder No. 1 Pipeline Relocation	DenBoer Engineering & Construction, Inc.	\$ 989,000	\$ 141,750	\$ 499,300	\$ 3,800	3/14/05	12/13/05	12/05	50%
1602	1512	Mills Water Treatment Plant Administration Building HVAC Replacement	Coastal Air, Inc.	\$ 235,950	\$ -	\$ 245,748	\$ 9,798	4/20/05	10/6/05	10/05	100%
1603	1506A	Weymouth Water Treatment Plant Replace Surface Wash Headers in Filter Building No. 1	Brutoco Engineering & Construction, Inc.	\$ 3,136,400	\$ 254,165	\$ 591,560	\$ -	5/19/05	9/7/06	9/06	19%
1605	1513A	Diemer Water Treatment Plant Administration Building Reroofing	Best Roofing & Waterproofing, Inc.	\$ 161,094	\$ 59,917	\$ 140,613	\$ -	5/19/05	12/6/05	12/05	87%
1607	1504	Diemer Water Treatment Plant Entrance Relocation, Vehicle Maintenance Center, and Solids Handling Facilities	Brutoco Engineering & Construction, Inc.	\$ 29,260,000	\$ 881,784	\$ 4,832,087	\$ -	6/13/05	11/1/06	11/06	17%
1609	1483	Skinner Water Treatment Plant Oxidation Retrofit Program and Washwater Reclamation Plant No. 3	Shimmick Construction/Obayashi Corp. JV	\$ 184,650,000	\$ 1,937,543	\$ 5,341,543	\$ -	7/28/05	12/30/08	12/08	3%
1610	1501	Weymouth Water Treatment Plant Finished Water Reservoir Roof Recoating	CentiMark Corporation	\$ 1,440,000	\$ 117,050	\$ 271,850	\$ -	7/27/05	12/14/05	12/05	19%
1611	1503A	Fire Protection for Remote Communication Sites	Sabah International, Inc.	\$ 231,348	\$ 5,000	\$ 15,000	\$ -	9/13/05	6/27/06	6/06	6%
1612	1528	Diemer Water Treatment Plant Rehabilitate Filter Surface Wash Headers	Norman A. Olsson Construction, Inc.	\$ 1,849,331	\$ -	\$ -	\$ -	10/12/05	9/4/07	9/07	0%
1613	1533	Diemer Washwater Tank Pumps Replacement	DenBoer Engineering & Construction, Inc.	\$ 355,000	\$ -	\$ -	\$ -	11/9/05	8/24/06	8/06	0%
1614	1505	Diemer Plant Maintenance Facilities	Brutoco Engineering & Construction, Inc.	\$ 8,219,000	\$ -	\$ -	\$ -	11/9/05	11/20/06	11/06	0%
<b>Miscellaneous Contract Totals</b>				<b>\$ 426,134,127</b>	<b>\$ 16,059,841</b>	<b>\$ 105,489,798</b>	<b>\$ 575,757</b>				
<b>Total Value of Construction Contracts in Progress</b>				<b>\$ 668,384,127</b>	<b>\$ 19,850,460</b>	<b>\$ 248,345,039</b>	<b>\$ 21,003,213</b>				

<sup>1</sup> Remedial work remains.

<sup>2</sup> Time extension pending.



<sup>3</sup> Work has been suspended as a result of discovery of PCB-containing material in the sealant.

**Summary of Construction and Procurement Contracts Completed This Month Pending Final Payment**

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Estimated Final Earnings	Total Net Value of Extra Work	Date Work Accepted	Date Notice of Completion Recorded	Date Final Payment Due
1602	1512	Henry J. Mills Water Treatment Plant Administration Building HVAC Replacement	Coastal Air, Inc.	\$ 235,950	\$ 245,748	\$ 9,798	10/06/05	10/19/05	12/05/05

**Summary of Procurement Contracts**



Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings to Date	Starting Date	Delivery Date	Remarks
1510	1346A	Oxygen/Ozone System Equipment for the Joseph Jensen and Henry J. Mills Filtration Plants Oxidation Retrofit Program	Ozonía North America	\$ 18,638,500	\$ -	\$ 16,010,073	03/16/99	12/30/05	Payments on this contract are made quarterly
1582	1480	Oxygen/Ozone System Equipment for the Robert A. Skinner Filtration Plant Oxidation Retrofit Program	Ozonía North America	\$ 8,409,000	\$ -	\$ 1,123,266	06/22/04	11/30/08	Payments on this contract are made quarterly
1584	1494	Butterfly Valves for the San Diego Pipeline No. 6 North Reach Project	Sojitz Corporation of America	\$ 796,045	\$ -	\$ -	07/19/04	12/15/05	Payment on delivery
1601	1519	Fabricated Steel Pipe and Fittings for the Robert A. Skinner Filtration Plant Oxidation Retrofit Program and Washwater Reclamation Plant No. 3	Ameron International	\$ 8,545,000	\$ -	\$ -	03/22/05	03/22/06	Payment on delivery
<b>Total Value of Procurement Contracts in Progress</b>				<b>\$ 36,388,545</b>	<b>\$ -</b>	<b>\$ 17,133,339</b>			

<p>Contract No. 1542 Specifications No. 1437 Contractor: J. F. Shea / Kenny</p>	<p><b>Inland Feeder Program Arrowhead Tunnels Project</b></p>
<p><b>Scope of Work:</b> The project consists of purchasing two tunnel boring machines (TBMs); excavating two 12-foot interior finished diameter tunnels; constructing three portal structures; furnishing and installing a precast concrete segmental liner and a final liner for the Arrowhead West tunnel.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete <b>54%</b> Percent Extra Work <b>8%</b> Estimated Completion Date <b>November 2008</b></p>	
<p><b>Details:</b> Bid Amount <b>\$242,250,000</b> Earnings To Date <b>\$142,855,241</b> Net Extra Work To Date <b>\$20,427,456</b> Earnings This Month <b>\$3,790,619</b> Net Extra Work This Month <b>\$1,855,240</b> Contract Start <b>8/2/02</b> Duration in Working Days <b>1050</b> Contract Completion <b>6/13/07 *</b></p>	<p>Work progressing at the East Tunnel Portal</p>
<p>Contract No. 1559 Specifications No. 1473 Contractor: Riverside Construction Co., Inc.</p>	<p><b>Diamond Valley Recreation, East Marina Project, Phase 1</b></p>
<p><b>Scope of Work:</b> The work consists of constructing access roadways, sediment and filtration channels, storm drains, floating wave attenuator, and a boat ramp with reinforced concrete panels.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete <b>96%</b> Percent Extra Work <b>0%</b> Estimated Completion Date <b>February 2006</b></p>	
<p><b>Details:</b> Bid Amount <b>\$4,646,000</b> Earnings To Date <b>\$4,475,847</b> Net Extra Work To Date <b>\$0</b> Earnings This Month <b>\$0</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>4/7/03</b> Duration in Working Days <b>70</b> Contract Completion <b>9/2/03 **</b></p>	<p>Waves breaking on the floating wave attenuator</p>


\* Contract completion to be revised based on tunneling progress and negotiations with the contractor.


\*\* Remedial work remains.





<p>Contract No. 1569 Specifications No. 1466 Contractor: Kiewit Pacific Co.</p>	<p><b>OC-88 Energy Savings Modifications</b></p>
<p><b>Scope of Work:</b> The work consists of furnishing and installing the following: 2 spherical surge tanks, 8 surge anticipation valves, 1 plant flow meter, 3 new pumps, motors, and variable frequency drives. Additional work consists of modifying the following existing items: a forebay, chlorine room, discharge line, sodium hypochlorite feed system, and 4 pumps.</p>	
<p><b>At a Glance:</b></p> <p>Estimated Percent Complete <b>93%</b> Percent Extra Work <b>4%</b> Estimated Completion Date <b>November 2005</b></p>	
<p><b>Details:</b></p> <p>Bid Amount <b>\$9,095,000</b> Earnings To Date <b>\$8,824,546</b> Net Extra Work To Date <b>\$351,820</b> Earnings This Month <b>\$223,335</b> Net Extra Work This Month <b>\$45,464</b> Contract Start <b>8/13/03</b> Duration in Working Days <b>540</b> Contract Completion <b>11/3/05</b></p>	<p>New surge relief valves</p>
<p>Contract No. 1579 Specifications No. 1457 Contractor: Gantry Constructors, Inc.</p>	<p><b>Desert Pumping Plant Facilities Fire Protection Upgrades</b></p>
<p><b>Scope:</b> The work consists of construction of new pump house and fire water supply systems, removal and replacement of existing sprinkler systems with new fire suppression systems, and new fire detection and alarm systems.</p>	
<p><b>At a Glance:</b></p> <p>Estimated Percent Complete <b>92%</b> Percent Extra Work <b>2%</b> Estimated Completion Date <b>January 2006</b></p>	
<p><b>Details:</b></p> <p>Bid Amount <b>\$3,695,000</b> Earnings To Date <b>\$3,477,817</b> Net Extra Work To Date <b>\$66,894</b> Earnings This Month <b>\$216,014</b> Net Extra Work This Month <b>\$55,702</b> Contract Start <b>5/7/04</b> Duration in Working Days <b>320</b> Contract Completion <b>9/19/05</b> *</p>	<p>Erecting a metal building to house a new fire pump at Iron Mountain Pumping Plant</p>

\* Time extension pending.



Contract No.	1588	<b>Diemer Water Treatment Plant Settling Basin No. 8 Spillway Conduit</b>
Specifications No.	1468	
Contractor:	Kiewit Pacific Co.	
<b>Scope of Work:</b>		
The work consists of constructing an 84-inch diameter fabricated steel spillway conduit, an overflow structure, an energy dissipater, and associated work.		
<b>At a Glance:</b>		
Estimated Percent Complete	<b>78%</b>	
Percent Extra Work	<b>0%</b>	
Estimated Completion Date	<b>December 2006</b>	
<b>Details:</b>		
Bid Amount	<b>\$3,726,000</b>	
Earnings To Date	<b>\$2,913,600</b>	
Net Extra Work To Date	<b>\$0</b>	
Earnings This Month	<b>\$221,123</b>	
Net Extra Work This Month	<b>\$0</b>	
Contract Start	<b>10/27/04</b>	Installed spillway conduit connected to the overflow structure in the background
Duration in Working Days	<b>536</b>	
Contract Completion	<b>12/21/06</b>	

Contract No.	1589	<b>Weymouth Water Treatment Plant Solids Handling Facilities</b>
Specifications No.	1492	
Contractor:	Brutoco Engineering & Construction, Inc.	
<b>Scope:</b>		
The work consists of upgrading an existing sludge pump station; constructing two gravity thickeners, a new solids dewatering facility building to house three new filter belt presses, a truck loading facility, four solids storage hoppers, and associated work.		
<b>At a Glance:</b>		
Estimated Percent Complete	<b>82%</b>	
Percent Extra Work	<b>0%</b>	
Estimated Completion Date	<b>February 2006</b>	
<b>Details:</b>		
Bid Amount	<b>\$14,090,000</b>	
Earnings To Date	<b>\$11,572,649</b>	
Net Extra Work To Date	<b>\$33,345</b>	
Earnings This Month	<b>\$2,118,455</b>	
Net Extra Work This Month	<b>\$0</b>	
Contract Start	<b>10/20/04</b>	Placing of concrete slabs at the truck loading facility
Duration in Working Days	<b>280</b>	
Contract Completion	<b>2/1/06</b>	

<p>Contract No. 1590 Specifications No. 1508 Contractor: Carbon Activated Corp.</p>	<p><b>Jensen Water Treatment Plant Modules 1, 2, &amp; 3 Filter Materials Replacement</b></p>
<p><b>Scope:</b> The work consists of removing and disposing of existing filter material and replacing with new filter material consisting of granular activated carbon, silica and garnet sand, and silica and garnet gravel for 40 filter units.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete <b>98%</b> Percent Extra Work <b>0%</b> Completion Date <b>November 2005</b></p>	
<p><b>Details:</b> Bid Amount <b>\$2,717,518</b> Earnings To Date <b>\$2,671,768</b> Net Extra Work To Date <b>\$0</b> Earnings This Month <b>\$0</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>11/23/04</b> Duration in Working Days <b>150</b> Contract Completion <b>8/5/05 *</b></p>	<p>Clean filter ready for new filter material</p>
<p>Contract No. 1593 Specifications No. 1489 Contractor: J. R. Filanc Construction Company, Inc.</p>	<p><b>Skinner Water Treatment Plant Expansion No. 4 Module No. 7</b></p>
<p><b>Scope:</b> The work consists of construction of a water treatment module, new utilities, a new pumping station, a new electrical switchgear facility, and associated work.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete <b>34%</b> Percent Extra Work <b>0%</b> Estimated Completion Date <b>March 2007</b></p>	
<p><b>Details:</b> Bid Amount <b>\$76,383,645</b> Earnings To Date <b>\$25,802,193</b> Net Extra Work To Date <b>\$18,393</b> Earnings This Month <b>\$5,124,123</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>1/5/05</b> Duration in Working Days <b>527</b> Contract Completion <b>3/6/07</b></p>	<p>Setting wall forms for the cross tunnel</p>


\* Time extension pending.






<p>Contract No. 1594 Specifications No. 1490 Contractor: PALP, Inc. dba Excel Paving Company</p>	<p><b>Diamond Valley Lake East Recreation Searl Parkway Improvements, Phase 1</b></p>
<p><b>Scope:</b> The work consists of the construction of a roadway; installation of drainage channel; installation of sewer, water, and storm drain pipes; and associated work.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete <b>97%</b> Percent Extra Work <b>1%</b> Estimated Completion Date <b>November 2005</b></p>	
<p><b>Details:</b> Bid Amount <b>\$8,986,566</b> Earnings To Date <b>\$8,794,173</b> Net Extra Work To Date <b>\$48,533</b> Earnings This Month <b>\$172,746</b> Net Extra Work This Month <b>\$48,533</b> Contract Start <b>12/15/04</b> Duration in Working Days <b>180</b> Contract Completion <b>10/6/05 *</b></p>	<p>Completed paving of Searl Parkway</p>
<p>Contract No. 1597 Specifications No. 1502 Contractor: Best Roofing &amp; Waterproofing, Inc.</p>	<p><b>Joseph Jensen Water Treatment Plant Module 1 Settling Basin No. 3 Leak Repairs</b></p>
<p><b>Scope:</b> The work consists of removal of joint sealing material from existing settling basin floor, preparing the joints, applying new sealant, and associated work.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete <b>46%</b> Percent Extra Work <b>0%</b> Estimated Completion Date <b>**</b></p>	
<p><b>Details:</b> Bid Amount <b>\$546,275</b> Earnings To Date <b>\$250,350</b> Net Extra Work To Date <b>\$0</b> Earnings This Month <b>\$0</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>1/10/05</b> Duration in Working Days <b>75</b> Contract Completion <b>7/31/05 **</b></p>	<p>Area in which expansion joints are to be repaired</p>

\* Time extension pending.



\*\* Work has been suspended as a result of discovery of PCB-containing material in the sealant.

Contract No. 1598 Specifications No. 1479 Contractor: J. F. Shea Construction, Inc.	<b>San Diego Pipeline No. 6 North Reach</b>
<b>Scope:</b> The work consists of the construction of approximately seven miles of fabricated steel pipeline, constructing facility connections, installing butterfly valves, and associated work.	
<b>At a Glance:</b> Estimated Percent Complete <b>34%</b> Percent Extra Work <b>0%</b> Estimated Completion Date <b>January 2007</b>	
<b>Details:</b> Bid Amount <b>\$65,806,000</b> Earnings To Date <b>\$22,655,939</b> Net Extra Work To Date <b>\$43,174</b> Earnings This Month <b>\$3,353,336</b> Net Extra Work This Month <b>\$4,983</b> Contract Start <b>1/24/05</b> Duration in Working Days <b>500</b> Contract Completion <b>1/20/07</b>	Pipeline installation with backfilling operations in the background


Contract No. 1599 Specifications No. 1496 Contractor: Mladen Buntich Construction Co.	<b>Diemer Water Treatment Plant Yorba Linda Feeder Bypass</b>
<b>Scope:</b> The work consists of installing approximately 1,580 linear feet of pipeline, including excavation and construction of a tunnel, vertical shaft, and associated work.	
<b>At a Glance:</b> Estimated Percent Complete <b>36%</b> Percent Extra Work <b>0%</b> Estimated Completion Date <b>March 2006</b>	
<b>Details:</b> Bid Amount <b>\$5,915,000</b> Earnings To Date <b>\$2,113,215</b> Net Extra Work To Date <b>\$0</b> Earnings This Month <b>\$1,233,500</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>2/16/05</b> Duration in Working Days <b>280</b> Contract Completion <b>3/24/06</b>	Drilling the vertical shaft


<p>Contract No. 1600 Specifications No. 1521 Contractor: DenBoer Engineering &amp; Construction, Inc.</p>	<p><b>West Valley Feeder No. 1 Pipeline Relocation</b></p>	
<p><b>Scope:</b> The work consists of construction of welded steel pipeline, concrete encasements, an air release and vacuum valve, and associated work.</p>		
<p><b>At a Glance:</b> Estimated Percent Complete <b>50%</b> Percent Extra Work <b>0%</b> Estimated Completion Date <b>December 2005</b></p>		
<p><b>Details:</b> Bid Amount <b>\$989,000</b> Earnings To Date <b>\$499,300</b> Net Extra Work To Date <b>\$3,800</b> Earnings This Month <b>\$141,750</b> Net Extra Work This Month <b>\$3,800</b> Contract Start <b>3/14/05</b> Duration in Working Days <b>60</b> Contract Completion <b>12/13/05</b></p>		
<p>Excavation for pipeline relocation</p>		
<p>Contract No. 1602 Specifications No. 1512 Contractor: Coastal Air, Inc.</p>	<p><b>Mills Water Treatment Plant Administration Building HVAC Replacement</b></p>	
<p><b>Scope:</b> The work consists of removing and replacing the existing HVAC system including air handling units, acoustical ceiling tiles, ducting, and associated work.</p>		
<p><b>At a Glance:</b> Estimated Percent Complete <b>100%</b> Percent Extra Work <b>4%</b> Estimated Completion Date <b>October 2005</b></p>		
<p><b>Details:</b> Bid Amount <b>\$235,950</b> Earnings To Date <b>\$245,748</b> Net Extra Work To Date <b>\$9,798</b> Earnings This Month <b>\$0</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>4/20/05</b> Duration in Working Days <b>110</b> Actual Contract Completion <b>10/6/05</b></p>		
<p>Completed installation of HVAC units and ducting</p>		



<p>Contract No. 1603 Specifications No. 1506A Contractor: Brutoco Engineering &amp; Construction, Inc.</p>	<p><b>Weymouth Water Treatment Plant Replace Surface Wash Headers in Filter Building No. 1</b></p>
<p><b>Scope:</b> The work consists of replacement of the existing filter surface wash system in each of the 24 filters in Filter Building No. 1, and associated work.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete 19% Percent Extra Work 0% Estimated Completion Date <b>September 2006</b></p>	
<p><b>Details:</b> Bid Amount \$3,136,400 Earnings To Date \$591,560 Net Extra Work To Date \$0 Earnings This Month \$254,165 Net Extra Work This Month \$0</p>	
<p>Contract Start 5/19/05 Duration in Working Days 330 Contract Completion 9/7/06</p>	
<p>Existing surface wash header piping to be replaced</p>	
<p>Contract No. 1605 Specifications No. 1513A Contractor: Best Roofing &amp; Waterproofing, Inc.</p>	<p><b>Diemer Water Treatment Plant Administration Building Reroofing</b></p>
<p><b>Scope:</b> The work consists of replacement of existing roofing with new materials.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete 87% Percent Extra Work 0% Estimated Completion Date <b>December 2005</b></p>	
<p><b>Details:</b> Bid Amount \$161,094 Earnings To Date \$140,613 Net Extra Work To Date \$0 Earnings This Month \$59,917 Net Extra Work This Month \$0</p>	
<p>Contract Start 5/19/05 Duration in Working Days 90 Contract Completion 12/6/05</p>	
<p>Spraying insulation on the roof deck</p>	



<p>Contract No. 1607 Specifications No. 1504 Contractor: Brutoco Engineering &amp; Construction, Inc.</p>	<p><b>Diemer Water Treatment Plant Entrance Relocation, Vehicle Maintenance Center, and Solids Handling Facilities</b></p>
<p><b>Scope:</b> The work consists of construction of gravity thickeners; a solids dewatering facility building; a truck loading facility; elevated solids storage hoppers; a pump station; vehicle maintenance building; and entrance gate facilities.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete 17% Percent Extra Work 0% Estimated Completion Date <b>November 2006</b></p>	
<p><b>Details:</b> Bid Amount <b>\$29,260,000</b> Earnings To Date <b>\$4,832,087</b> Net Extra Work To Date <b>\$0</b> Earnings This Month <b>\$881,784</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>6/13/05</b> Duration in Working Days <b>350</b> Contract Completion <b>11/1/06</b></p>	<p>Construction of solids storage hopper support structure in progress</p>
	<p>Contract No. 1609 Specifications No. 1483 Contractor: Shimmick Construction/Obayashi Corp. JV</p>
<p><b>Scope:</b> The work consists of construction of buildings and water treatment structures, washwater reclamation plant, chemical and liquid oxygen facilities, cooling water pump station, power substation, switchgear building, and associated work.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete 3% Percent Extra Work 0% Estimated Completion Date <b>December 2008</b></p>	
<p><b>Details:</b> Bid Amount <b>\$184,650,000</b> Earnings To Date <b>\$5,341,543</b> Net Extra Work To Date <b>\$0</b> Earnings This Month <b>\$1,937,543</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>7/28/05</b> Duration in Working Days <b>865</b> Contract Completion <b>12/30/08</b></p>	<p>Continuing excavation of washwater reclamation plant site</p>

Contract No. 1610 Specifications No. 1501 Contractor: CentiMark Corporation	<b>Weymouth Water Treatment Plant Finished Water Reservoir Roof Recoating</b>
<b>Scope:</b> The work consists of removal and replacement of existing roof coating system.	
<b>At a Glance:</b>	
Estimated Percent Complete <b>19%</b>	
Percent Extra Work <b>0%</b>	
Estimated Completion Date <b>December 2005</b>	
<b>Details:</b>	
Bid Amount <b>\$1,440,000</b>	
Earnings To Date <b>\$271,850</b>	
Net Extra Work To Date <b>\$0</b>	
Earnings This Month <b>\$117,050</b>	
Net Extra Work This Month <b>\$0</b>	
Contract Start <b>7/27/05</b>	The application of prime coat material to existing reservoir roof
Duration in Working Days <b>90</b>	
Contract Completion <b>12/14/05</b>	


Contract No. 1611 Specifications No. 1503A Contractor: Sabah International, Inc.	<b>Fire Protection for Remote Communication Sites</b>
<b>Scope:</b> The work consists of installing gas fire suppression systems, smoke detectors, high temperature detectors, and water leak detectors with digital output signals at nine microwave sites operated by Metropolitan.	
<b>At a Glance:</b>	
Estimated Percent Complete <b>6%</b>	
Percent Extra Work <b>0%</b>	
Estimated Completion Date <b>June 2006</b>	
<b>Details:</b>	
Bid Amount <b>\$231,348</b>	
Earnings To Date <b>\$15,000</b>	
Net Extra Work To Date <b>\$0</b>	
Earnings This Month <b>\$5,000</b>	
Net Extra Work This Month <b>\$0</b>	
Contract Start <b>9/13/05</b>	A remote communication site to receive fire protection
Duration in Working Days <b>200</b>	
Contract Completion <b>6/27/06</b>	





<p>Contract No. 1612 Specifications No. 1528 Contractor: Norman A. Olsson Construction, Inc.</p>	<p><b>Diemer Water Treatment Plant Rehabilitate Filter Surface Wash Headers</b></p>
<p><b>Scope:</b> The work consists of replacement of filter surface wash main piping with stainless steel piping; removal, refurbishment, and reinstallation of existing filter surface wash headers and valves; and seismic upgrading of all pipe supports.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete 0% Percent Extra Work 0% Estimated Completion Date <b>September 2007</b></p>	
<p><b>Details:</b> Bid Amount <b>\$1,849,331</b> Earnings To Date <b>\$0</b> Net Extra Work To Date <b>\$0</b> Earnings This Month <b>\$0</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>10/12/05</b> Duration in Working Days <b>479</b> Contract Completion <b>9/4/07</b></p>	<p>Corroded surface main pipe to be replaced</p>
<p>Contract No. 1613 Specifications No. 1533 Contractor: DenBoer Engineering &amp; Construction, Inc.</p>	<p><b>Diemer Water Treatment Plant Washwater Tank Pumps Replacement</b></p>
<p><b>Scope:</b> The work consists of the replacement of existing pumps, motors, check valves, pressure indicators, and reduced voltage motor starters.</p>	
<p><b>At a Glance:</b> Estimated Percent Complete 0% Percent Extra Work 0% Estimated Completion Date <b>August 2006</b></p>	
<p><b>Details:</b> Bid Amount <b>\$355,000</b> Earnings To Date <b>\$0</b> Net Extra Work To Date <b>\$0</b> Earnings This Month <b>\$0</b> Net Extra Work This Month <b>\$0</b> Contract Start <b>11/9/05</b> Duration in Working Days <b>200</b> Contract Completion <b>8/24/06</b></p>	<p>Existing pumps to be replaced</p>



Contract No.	1614	<b>Diemer Water Treatment Plant Plant Maintenance Facilities</b>
Specifications No.	1505	
Contractor:	Brutoco Engineering & Construction, Inc.	
<b>Scope:</b> The work consists of the construction of a new maintenance building, installation of an electrical substation/transformer, and associated work.		
<b>At a Glance:</b>		
Estimated Percent Complete	0%	
Percent Extra Work	0%	
Estimated Completion Date	<b>November 2006</b>	
<b>Details:</b>		
Bid Amount	<b>\$8,219,000</b>	
Earnings To Date	<b>\$0</b>	
Net Extra Work To Date	<b>\$0</b>	
Earnings This Month	<b>\$0</b>	
Net Extra Work This Month	<b>\$0</b>	
Contract Start	<b>11/9/05</b>	Architectural rendering of new maintenance building
Duration in Working Days	<b>260</b>	
Contract Completion	<b>11/20/06</b>	